SEQUENCE LISTING

<110> ICARD-LIEPKALNS, Christine
MALLET, Jacques
RAVASSARD, Philippe

<120> POLYPEPTIDES OF THE "BASIC-HELIX-LOOP-HELIX" bHLH FAMILY, CORRESPONDING NUCLEIC ACID SEQUENCES

<130> ST96042A-US

<140> US 9/331,356
<141> 1999-06-18

<150> FR96/15651
<151> 1996-12-19

<150> PCT/FR97/02368
<151> 1997-12-19

<160> 28

<170> PatentIn Ver. 2.1

<210> 1
<211> 1460
<212> DNA
<213> Rattus norvegicus

<400> 1
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<210> 2
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

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<223> n = Inosine

<400> 2
aatkhgmgng agcgcndkcg cryg
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<210> 3
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primers

<400> 3
ggcsrdtytc agggtsybga yctt
24

<210> 4
<211> 25

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primers

<400> 4
aaccttaact ccgcgctgga tgcgc
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<210> 5
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primers

<400> 5
cgcggtgtcc tgcccacc
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<210> 6
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: E box

<400> 6
caggtg
6

<210> 7
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Mutated E box

<400> 7
tccgtg
6

<210> 8
<211> 214
<212> PRT
<213> Rattus norvegicus

<400> 8
Met Ala Pro His Pro Leu Asp Ala Pro Thr Ile Gln Val Ser Gln Glu

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Asn Ser Thr Pro Pro Ser Pro Thr Leu Val Pro Arg Asp Cys Ser Glu
            35                  40                  45

Ala Glu Ala Gly Asp Cys Arg Gly Thr Ser Arg Lys Leu Arg Ala Arg
        50                  55                  60

   Arg Gly Gly Arg Asn Arg Pro Lys Ser Glu Leu Ala Leu Ser Lys Gln
    65                  70                  75                  80

Arg Arg Ser Arg Arg Lys Lys Ala Asn Asp Arg Glu Arg Asn Arg Met
                    85                  90                  95

His Asn Leu Asn Ser Ala Leu Asp Ala Leu Arg Gly Val Leu Pro Thr
                100                 105                 110

Phe Pro Asp Asp Ala Lys Leu Thr Lys Ile Glu Thr Leu Arg Phe Ala
            115                 120                 125

His Asn Tyr Ile Trp Ala Leu Thr Gln Thr Leu Arg Ile Ala Asp His
        130                 135                 140

   Ser Phe Tyr Gly Pro Glu Pro Pro Val Pro Cys Gly Glu Leu Gly Ser
   145                 150                 155                 160

Pro Gly Gly Gly Ser Ser Gly Asp Trp Gly Ser Ile Tyr Ser Pro Val
                    165                 170                 175

Ser Gln Ala Gly Ser Leu Ser Pro Thr Ala Ser Leu Glu Glu Phe Pro
                180                 185                 190

Gly Leu Gln Val Pro Ser Ser Pro Ser Cys Leu Leu Pro Gly Thr Leu
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Val Phe Ser Asp Phe Leu
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<212> DNA
<213> Homo sapiens

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gacgggcagg ggaaagaggg atcctctgac ccagcggggg ctgggaggat ggctgttttt
240

gtttttccc acctagcctc ggaatcgcgg actgcgccgt gacggactca aacttaccct
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420
tccgccccgc ccagccccac tcgcacaccg gggaactgcg cagaggcgga agagggaggc
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aatcgaatgc acgacctcaa ctcggcactg gacgccctgc gcggtgtcct gcccaccttc
660
ccagacgacg cgaagctcac caagatcgag acgctgcgct tcgcccacaa ctacatctgg
720
gcgctgactc aaacgctgcg catagcggac cacagcttgt acgcgctgga gccgccggcg
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ccgcactgcg gggagctggg cagcccaggc ggtccccccg gggactgggg gtccctctac
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gcattgcaaa gtgcgctcat tttaggcctc ctctctgcca ccaccccata atcccattca
1260
aagaatacta gaatggtagc actacccggc cggagccgcc caccgtcttg ggtcgcccta
1320
ccctcactca
1330

<210> 10
<211> 214
<212> PRT
<213> Homo sapiens

<400> 10
Met Thr Pro Gln Pro Ser Gly Ala Pro Thr Val Gln Val Thr Arg Glu
1 5 10 15

Thr Glu Arg Ser Phe Pro Arg Ala Ser Glu Asp Glu Val Thr Cys Pro
20 25 30

Thr Ser Ala Pro Pro Ser Pro Thr Arg Thr Pro Gly Asn Cys Ala Glu
35 40 45

Ala Glu Glu Gly Gly Cys Arg Gly Ala Pro Arg Lys Leu Arg Ala Arg
50 55 60

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Arg Gly Gly Arg Ser Arg Pro Lys Ser Glu Leu Ala Leu Ser Lys Gln
 65                  70                  75                  80

Arg Arg Ser Arg Arg Lys Lys Ala Asn Asp Arg Glu Arg Asn Arg Met
                    85                  90                  95

His Asp Leu Asn Ser Ala Leu Asp Ala Leu Arg Gly Val Leu Pro Thr
               100                 105                 110

Phe Pro Asp Asp Ala Lys Leu Thr Lys Ile Glu Thr Leu Arg Phe Ala
           115                 120                 125

His Asn Tyr Ile Trp Ala Leu Thr Gln Thr Leu Arg Ile Ala Asp His
       130                 135                 140

Ser Leu Tyr Ala Leu Glu Pro Pro Ala Pro His Cys Gly Glu Leu Gly
145                 150                 155                 160

Ser Pro Gly Gly Pro Pro Gly Asp Trp Gly Ser Leu Tyr Ser Pro Val
                165                 170                 175

Ser Gln Ala Gly Ser Leu Ser Pro Ala Ala Ser Leu Glu Glu Arg Pro
            180                 185                 190

Gly Leu Leu Gly Ala Thr Ser Ser Ala Cys Leu Ser Pro Gly Ser Leu
        195                 200                 205

Ala Phe Ser Asp Phe Leu
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<210> 11
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 11
caacgaccgg cagcgcaa
18

<210> 12
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 12
gcccagatgt agttgtgggc gaag
24

<210> 13
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 13
atcgttgaga ctcgtaccag cagagtcacg agagagacta cacggtactg gnnnnnnnnn
60

<210> 14
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 14
agacgacgcg aagctcacca
20

<210> 15
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 15
gctcaccaag atcgagacgc tgcg
24

<210> 16
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 16
atcgttgaga ctcgtaccag cagag
25

<210> 17
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 17
tcgtaccagc agagtcacga gagag
25

<210> 18
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 18
ctgccagcct gggagactg
19

<210> 19
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 19
ctgcatctat ctaatgctcc tctcgctacc tgctcactct gcgtgacatc
50

<210> 20
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 20
gatgtcacgc agagtgagca ggtag
25

<210> 21
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 21

agcctgggag actggggagt aga
23

<210> 22
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 22
agagtgagca ggtagcgaga ggag
24

<210> 23
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 23
cgctatgcgc agcgtttgag tc
22

<210> 24
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 24
cctcggaccc cattctctct tcttt
25

<210> 25
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

<400> 25
tgagtgaggg tagggcgacc caag
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<210> 26

<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 26
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15

<210> 27
<211> 1381
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 27
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1080

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<210> 28
<211> 1427
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 28
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120
ucccaggcgg gggcgccugc agcucagcug aacuuggcga ccagaagccc gcugagcucc
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